



5-17-04 1616/41

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Approved for use through 07/31/2006. OMB 0651-0032
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

FEE TRANSMITTAL for FY 2003

Effective 01/01/2003. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) 180

Complete if Known

Application Number 10/040,010
Filing Date January 4, 2002
First Named Inventor Thomas M. Mills et al.
Examiner Name Shaojia A. Jiang
Art Unit 1617
Attorney Docket No. M0351/267875

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METHOD OF PAYMENT (check all that apply)

☒ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None

☒ Deposit Account:

Deposit Account Number 16-1435

Deposit Account Name

The Director is authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☒ Credit any overpayments
☒ Charge any additional fee(s) during the pendency of this application
☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

FEE CALCULATION

1. BASIC FILING FEE

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1001	750	2001	375	Utility filing fee	
1002	330	2002	165	Design filing fee	
1003	520	2003	260	Plant filing fee	
1004	750	2004	375	Reissue filing fee	
1005	160	2005	80	Provisional filing fee	

SUBTOTAL (1)

(\$ 0)

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

		Extra Claims	Fee from below	Fee Paid
Total Claims	-20 **	= 0	X	= 0
Independent Claims	-3 **	= 0	X	= 0
Multiple Dependent			X	= 0

Large Entity		Small Entity		Fee Description
Fee Code	Fee (\$)	Fee Code	Fee (\$)	
1202	18	2202	9	Claims in excess of 20
1201	84	2201	42	Independent claims in excess of 3
1203	280	2203	140	Multiple dependent claim, if not paid
1204	84	2204	42	** Reissue independent claims over original patent
1205	18	2205	9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2)

(\$ 0)

**or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1051	130	2051	65	Surcharge - late filing fee or oath	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	
1053	130	1053	130	Non-English specification	
1812	2,520	1812	2,520	For filing a request for reexamination	
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
1251	110	2251	55	Extension for reply within first month	
1252	410	2252	205	Extension for reply within second month	
1253	930	2253	465	Extension for reply within third month	
1254	1,450	2254	725	Extension for reply within fourth month	
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1401	320	2401	160	Notice of Appeal	
1402	320	2402	160	Filing a brief in support of an appeal	
1403	280	2403	140	Request for oral hearing	
1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1452	110	2452	55	Petition to revive - unavoidable	
1453	1,300	2453	650	Petition to revive - unintentional	
1501	1,300	2501	650	Utility issue fee (or reissue)	
1502	470	2502	235	Design issue fee	
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1460	130	1460	130	Petitions to the Commissioner	
1807	50	1807	50	Processing fee under 37 CFR 1.17 (q)	
1806	180	1806	180	Submission of Information Disclosure Stmt	180
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
1809	750	2809	375	Filing a submission after final rejection (37 CFR § 1.129(a))	
1810	750	2810	375	For each additional invention to be examined (37 CFR § 1.129(b))	
1801	750	2801	375	Request for Continued Examination (RCE)	
1802	900	1802	900	Request for expedited examination of a design application	

Other fee (specify) _____

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3)

(\$ 180)

SUBMITTED BY

Complete (if applicable)

Name (Print/Type)	Cynthia B. Rothschild	Registration No. (Attorney/Agent)	47,040	Telephone	(336) 607-7300
Signature				Date	May 14, 2004

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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EXPRESS MAIL CERTIFICATE

"Express Mail" Label No. : EV 367 775 805 US

Serial No. : 10/040,010

Applicant(s) : Thomas M. Mills et al.

Filing Date : January 4, 2002

Title: : Treatment of Erectile Dysfunction

Examiner : 1617

Group Art Unit : Shaojia A. Jiang

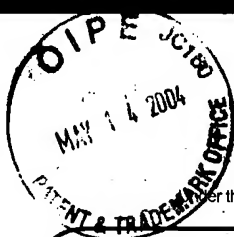
Type of Document(s) : Express Mail Certificate (EV 367 775 805 US);
Transmittal Form PTO/SB/21;
Fee Transmittal Form PTO/SB/17;
Check # 361386 in the amount of \$180;
Information Disclosure Statement (in duplicate);
PTO/SB/08a;
References; and
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Kay Farmer (signature)
Kay Farmer

Date Mailed: May 14, 2004



Express Mail EV 367 775 805 US

PTO/SB/21 (08-03)

Approved for use through 07/31/2006, OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	10/040,010
	Filing Date	January 4, 2002
	First Named Inventor	Thomas M. Mills et al.
	Art Unit	1617
	Examiner Name	Shaojia A. Jiang
Total Number of Pages in This Submission	Attorney Docket Number	M0351/267875

ENCLOSURES (check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form <input checked="" type="checkbox"/> Fee Attached - Check #361386 in the amount of \$180 <input type="checkbox"/> Amendment / Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Supplemental Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/ Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Express Mail Certificate (EV 367 775 805 US) PTO/SB/08a References Return postcard
Remarks		

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SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	Cynthia B. Rothschild Reg. No. 47040
Signature	
Date	May 14, 2004

CERTIFICATE OF MAILING			
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.			
Typed or printed name	Sent via express mail		
Signature		Date	

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Application Number 10/040,010
Filing Date January 4, 2002
First Named Inventor Thomas M. Mills et al.
Examiner Name Shaojia A. Jiang
Art Unit 1617
Attorney Docket No. M0351/267875

METHOD OF PAYMENT (check all that apply)

☒ Check ☐ Credit card ☐ Money ☐ Other ☐ None
Order

☒ Deposit Account:

Deposit
Account
Number 16-1435

Deposit
Account
Name

The Director is authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☒ Credit any overpayments
☒ Charge any additional fee(s) during the pendency of this application
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FEE CALCULATION (Continued)

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Other fee (specify) _____

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$) 180

SUBMITTED BY

Complete (if applicable)

Name (Print/Type) Cynthia B. Rothschild Registration No. (Attorney/Agent) 47,040 Telephone (336) 607-7300
Signature Date May 14, 2004

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EV 367 775 805 US.

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of : Thomas M. Mills et al.
Serial No : 10/040,010
Filed : January 4, 2002
For : Treatment of Erectile Dysfunction
Examiner : Shaojia A. Jiang
Art Unit : 1617

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the reference listed on the attached Form PTO/SB/08A. A copy of the references listed on the attached form is submitted herewith.

It is respectfully requested that the references listed on the attached form be expressly considered by the Examiner and be made of record in the application and appear among the "References Cited" on any patent to issue therefrom.

This Supplemental Information Disclosure Statement is being submitted after the mailing of a first Office Action in this application. A check in the amount of \$180 is enclosed for the fees due. However, the Commissioner is hereby authorized to charge any additional fees under 37 C.F.R. § 1.16 or § 1.17 which may be required during the entire pendency of this application, or to credit any overpayment, to Deposit Account No. 16-1435. A duplicate of this sheet is attached for that purpose.

Respectfully submitted,

Cynthia B. Rothschild
Reg. No. 47,040

Date: May 14, 2004

KILPATRICK STOCKTON LLP
1001 West Fourth Street
Winston-Salem, North Carolina 27101-2400
(336) 747-7541 (Phone)
(336) 734-2610 (Facsimile)

18/2004 MBERHE 00000039 10040010

FC:1806

180.00 0P



EV 367 775 805 US

PATENT

THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of : Thomas M. Mills et al.
Serial No : 10/040,010
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Examiner : Shaojia A. Jiang
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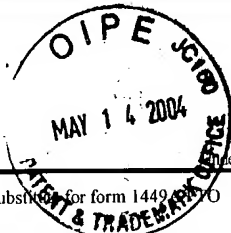
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Respectfully submitted,

Cynthia B. Rothschild
Reg. No. 47,040

Date: May 14, 2004

KILPATRICK STOCKTON LLP
1001 West Fourth Street
Winston-Salem, North Carolina 27101-2400
(336) 747-7541 (Phone)
(336) 734-2610 (Facsimile)



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PTO/SB/08a (08-03)

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 2

Complete if Known

Application Number	10/040,010
Filing Date	January 4, 2002
First Named Inventor	Thomas M. Mills et al.
Art Unit	1617
Examiner Name	Shaojia A. Jiang
Attorney Docket Number	M0351/267875

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
		US-			
		US-			
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FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				

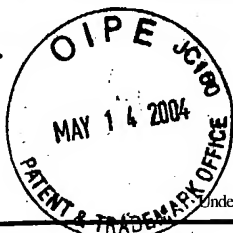
NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	1	MILLS, T. M., et al., "Nitric oxide inhibits RhoA/Rho-kinase signaling to cause penile erection," <i>Eur J Pharmacol</i> 439: 173-174, 2002
	2	MILLS, T. M., et al., "Inhibition of Tonic Contraction - a Novel Way to Approach Erectile Dysfunction?" <i>J Androl</i> , 23, S5-S9, 2002
	3	MILLS, T. M., et al., "The role of Androgens in the Erectile Response: a 1999 Perspective," <i>Mol Urol</i> , 3, 75-86, 1999

Examiner Signature	Date Considered
-----------------------	--------------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PTO/SB/08b(08-03)

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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**SUPPLEMENTAL
INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 2 of 2

Complete if Known

Application Number	10/040,010
Filing Date	January 4, 2002
First Named Inventor	Thomas M. Mills et al.
Art Unit	1617
Examiner Name	Shaojia A. Jiang
Attorney Docket Number	M0351/267875

RECEIVED
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TECH CENTER 1600/2900**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	4	MILLS, T. M., et al., "Endothelin-1-induced Vasoconstriction is Inhibited During Erection in Rats," <i>Am J Physiol Regul Integr Comp Physiol</i> 281, R476-R483, 2001	
	5	MILLS, T.M., et al., "Androgens and Penile Erection: A Review," <i>J Androl</i> 17, 633-638, 1996	
	6	MILLS, T. M., et al., "Sites of Androgenic Regulation of Cavernosal Blood Pressure During Penile Erection in the Rat," <i>Int J Impot Res</i> 8, 29-34, 1996	
	7	MILLS, T. M., et al., "Erection Modulates the Endothelin-1 Effect on the Rat Penis" (Abstract) <i>Int J Impot Res</i> 12, Suppl 2, S22, 2000	
	8	SAKURADA, S., et al., "Rho Activation in Excitatory Agonist-stimulated Vascular Smooth Muscle" (Abstract), <i>Am J. Physiol Cell Physiol</i> 281, C571-C578, 2001	
	9	SOMLYO, A. P., et al., "Signal Transduction and Regulation in Smooth Muscle," <i>Nature</i> 372, 231-236, 1994	
	10	UEHATA, M., et al., "Calcium Sensitization of Smooth Muscle Mediated by a Rho-associated Protein Kinase in Hypertension," <i>Nature</i> , 389, 990-994, 1997	
	11	WANG, H., et al., "RhoA-mediated Ca ²⁺ Sensitization in Erectile Function," <i>J. Biol. Chem</i> , 277, 30614-30621, 2002	
	12	WINGARD, C. J., et al., "Improved Erectile Function After Rho-kinase Inhibition in a Rat Castrate Model of Erectile Dysfunction," <i>Am J Physiol Regul Integr Comp Physiol</i> , 284, R1572-R1579, 2003	
	13	WINGARD, C. J., et al., "RhoA-RHO kinase Mediates Synergistic ET-1 and Phenylephrine Contraction of Rat Corpus Cavernosum," <i>Am J Physiol Regul Integr Comp Physiol</i> , 285 R1145-R1152, 2003 First published July 31, 2003; 10.1152/ajpregu.00329.2003	
	14	DAI, Y., et al. "Topical Application of a Rho-kinase Inhibitor in Rats Causes Penile Erection," <i>Int J Impot Res.</i> , Feb. 12, 2004, PMID: 14961052	

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